

Reducing RT dose to bilateral IB lymph nodes results in better patient-reported salivary function

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For head and neck cancer patients undergoing radiation therapy, a reduction in the amount of radiation treatment volume to the submandibular (level IB) lymph nodes resulted in better patient-reported salivary function, according to research presented today at the 2014 Multidisciplinary Head and Neck Cancer Symposium. The study results also found significant reductions in radiation dose to the salivary organs, and good local regional control.

Researchers evaluated 125 patients with node-positive oropharyngeal cancer who received chemoradiation at Memorial Sloan-Kettering Cancer Center in New York between May 2010 and December 2011. The average patient age was 57. Fifty-one percent of patients had base of tongue lesions; 41 percent had tonsil cancer; and 6 percent were classified as "other." The breakdown of patients' cancer stage/classification was: 74 percent T1-2 and 26 percent T3-4. All patients had cancer with lymph node involvement, including 16 percent N1; 8 percent N2A; 48 percent N2B; and 28 percent N2C.

Patients were categorized into two groups: those with sparing, or a reduction of <u>radiation treatment</u> volume to the region, of bilateral level IB nodes and those who underwent treatment without sparing. A prospective questionnaire regarding xerostomia (dry mouth) to assess late xerostomia was given to patients in both groups at each patient follow-up visit; clinical assessment (observer-rated) xerostomia scores



were also recorded.

The participants who received treatment involving sparing experienced significant improvement in patient-reported xerostomia summary scores (p=0.021) and observer-rated xerostomia scores (p=0.006) over the group in which there was no sparing. The two-year local regional control rate for the spared group was 97.5 percent and 93.8 percent for the group treated, indicating a low rate of cancer recurrence at the original tumor site.

Additionally, study results showed reductions in the mean <u>radiation</u> doses to the mouth and neck regions of patients in the spared group over the group with no sparing, including the ipsilateral submandibular gland (63.9 Gy vs. 70.5 Gy; p

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